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FORM 1449* ENFORMATION DISCLOSURE STATEMENT	Docket Number: 12008.42USD1	Application Number: 10/033,506	
in an application	Applicant LIAMOS ET AL		
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			U.S. PATENT DOCUMEN	12			
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	DATE PRIATE
1W	4,714,874	12/1987	Morris et al.				
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	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS		LATION
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pu	11-108879	04/1999	Japan				
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*Substitute Disclosure Statement Form (PTO-1449)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM	PE INFOR	MATION DISCLOSURE STATEMENT	Docket Number: 12008.42USD1	Application Number: 10/033,506
19	o me	IN AN APPLICATION	Applicant: LIAMOS ET AL.	
	APR 0 3 2002	Use several sheets if necessary)	Filing Date: 12/28/2001	Group Art Unit: 3761 2833

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
10	3,260,656	07/12/1966	Ross, Jr.	l l		
1	3,653,841	04/04/1972	Klein			
7	3,719,564	03/06/1973	Lilly, Jr. et al.			
	3,776,832	12/04/1973	Oswin et al.			APR - 5 2002
	3,837,339	09/24/1974	Aisenberg et al.			CEV
	3,972,320	08/03/1976	Kalman		71	APR - 5 a
	3,979,274	09/07/1976	Newman		TE	CHNO! O
	4,008,717	02/22/1977	Kowarski			CHNOLOGY CENTER A
	4,016,866	04/12/1977	Lawton			H
	4,055,175	10/25/1977	Clemens et al.		V	
	4,059,406	11/22/1977	Fleet		Λ	
	4,076,596	02/28/1978	Connery et al.			
	4,098,574	07/04/1978	Dappen			
	4,100,048	07/11/1978	Pompei et al.			. 73
	4,151,845	05/01/1979	Clemens			RF OF
	4,168,205	09/18/1979	Danninger et al.			C
	4,172,770	10/30/1979	Semersky et al.			
	4,178,916	12/18/1979	McNamara			7177 72007. 11. R
	4,206,755	06/10/1980	Klein) RDOM
	4,224,125	09/23/1980	Nakamura et al.			4
	4,240,438	12/23/1980	Updike et al.			
	4,240,889	12/23/1980	Yoda et al.			
	4,247,297	01/27/1981	Berti et al.			
	4,271,119	06/02/1981	Columbus			
	4,318,784	03/09/1982	Higgins et al.			
	4,340,458	07/20/1982	Lerner et al.			
4W	4,356,074	10/26/1982	Johnson		1 7	

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Docket Number: 12008.42USD1 Application Number:

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Applicant: LIAMOS ET AL.

Filing Date: 12/28/2001

Group Art Unit: 3764 2833

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O	4,365,637	12/28/1982	Johnson			
ì	4,366,033	12/28/1982	Richter et al.			APR - 5 2002
	4,375,399	03/01/1983	Havas et al.			100
7	4,384,586	05/24/1983	Christiansen			APR - 5 200
	4,392,933	07/12/1983	Nakamura et al.			ECHNOLOGY
	4,401,122	08/30/1983	Clark, Jr.		/	VECHNOLOGY CENTER A
	4,404,066	09/13/1983	Johnson .			
	4,407,959	10/04/1983	Tsuji et al.	/		
	4,418,148	11/29/1983	Oberhardt	7		
	4,420,564	12/13/1983	Tsuji et al.			
	4,427,770	01/24/1984	Chen et al.			
	4,431,004	02/14/1984	Bessman et al.		1	RECEINED
	4,436,094	03/13/1984	Cerami		7	SLS CE
	4,440,175	04/03/1984	Wilkins			: 0 1
	4,444,892	04/24/1984	Malmros			NED 3 200
	4,450,842	05/29/1984	Zick et al.	7		ROOM
	4,461,691	07/24/1984	Frank			LM .
	4,469,110	09/04/1984	Slama) \;	
	4,477,314	10/16/1984	Richter et al.			
	4,483,924	11/20/1984	Tsuji et al.			
	4,484,987	11/27/1984	Gough			
	4,522,690	06/11/1985	Venkatasetty	7		
	4,524,114	06/18/1985	Samuels et al.			
	4,526,661	07/02/1985	Steckhan et al.			
	4,534,356	08/13/1985	Papadakis			
	4,538,616	09/03/1985	Rogoff			
	4,543,955	10/01/1985	Schroeppel			
47	4,545,382	10/08/1985	Higgins et al.			

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10	4,552,840	11/12/1985	Riffer			<i>P</i>
	4,560,534	12/24/1985	Kung et al.			APR - 5 2002
7	4,571,292	02/18/1986	Liu et al.		/	APD -
7	4,573,994	03/04/1986	Fischell et al.		_	7 - 5 2002
7	4,581,336	04/08/1986	Malloy et al.			CHNOLOGY CENTER RS
	4,595,011	06/17/1986	Phillips			CANTER RS
	5,595,479	06/17/1986	Kimura et al.			
	4,619,754	10/28/1986	Niki et al.			
	4,633,878	01/06/1987	Bombardieri		<i>f</i>	_
	4,637,403	01/20/1987	Garcia et al.		•	
	4,650,547	03/17/1987	Gough			SHO
•	4,654,197	03/31/1987	Lilja et al.)	B 7 3 1
	4,655,880	04/07/1987	Liu			00 P - 3 V
	4,655,885	04/07/1987	Hill et al.			
	4,671,288	06/09/1987	Gough			M008
	4,679,562	07/14/1987	Luksha		,	T.X
	4,680,268	07/14/1987	Clark, Jr.			
	4,682,602	07/28/1987	Prohaska			
	4,684,537	08/04/1987	Graetzel et al.			
	4,685,463	08/11/1987	Williams			
	4,703,756	11/03/1987	Gough et al.			
	4,711,245	12/08/1987	Higgins et al.		$\overline{}$	
	4,717,673	01/05/1988	Wrighton et al.			
	4,721,601	01/26/1988	Wrighton et al.			
	4,726,378	02/23/1988	Kaplan	/		
1/	4,750,496	06/14/1988	Reinhart et al.	L	-	
1	4,757,022	07/12/1988	Shults et al.			

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Applicant: LIAMOS ET AL.

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			U.S. PATENT DOCUMEN	rs		
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE APR - 5 200
AW.	4,758,323	07/19/1988	Davis et al.			-CEN
7	4,759,371	07/26/1988	Franetski		7	APR - 5 2
7	4,759,828	07/26/1988	Young et al.		7	TECHNO!
7.	4,764,416	08/16/1988	Ueyama et al.		7	TECHNOLOGY CENTER
	4,776,944	10/11/1988	Janata et al.			
	4,781,798	11/01/1988	Gough			
7	4,784,736	11/15/1988	Lonsdale et al.			
	4,795,707	01/03/1989	Niiyama et al.		· / ·	1
	4,805,624	02/21/1989	Yao et al.			RECO.
	4,813,424	03/21/1989	Wilkins			STO STORY
	4,815,469	03/28/1989	Cohen et al.			山田
	4,820,399	04/11/1989	Senda et al.			17 25 円
	4,822,337	04/18/1989	Newhouse et al.			80
	4,830,959	05/16/1989	McNeil et al.			03
	4,832,797	05/23/1989	Vadgama et al.		(المعرب	
	4,840,893	06/20/1989	Hill et al.			
	4,848,351	07/18/1989	Finch			
	4,854,153	08/08/1989	Miyagawa et al.			
	4,871,351	10/03/1989	Feingold			
	4,871,440	10/03/1989	Nagata et al.			·
	4,890,620	01/02/1990	Gough			
	4,894,137	01/16/1990	Takizawa et al.			
	4,897,162	01/30/1990	Lewandowski et al.			
	4,897,173	01/30/1990	Nankai et al.			
	4,909,908	03/20/1990	Ross et al.			
	4,911,794	03/27/1990	Parce et al.		<u> </u>	
	4,919,141	04/24/1990	Zier et al.			
W-	4,919,767	04/24/1990	Vadgama et al.			

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			U.S. PATENT DOCUMEN	TS		
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TW	4,923,586	05/08/1990	Katayama et al.			
٦	4,927,516	05/22/1990	Yamaguchi et al.			
	4,935,105	06/19/1990	Churchouse			
	4,935,345	06/19/1990	Guilbeau et al.			
	4,936,956	06/26/1990	Wrighton			. 300
	4,938,860	07/03/1990	Wogoman			EIVE
	4,942,127	07/17/1990	Wada et al.			· 7 - 5 20
	4,945,045	07/31/1990	Forrest et al.		*	7 - 5 2002
	4,950,378	08/21/1990	Nagata			SENTER PS700
	4,953,552	09/04/1990	DeMarzo			18700
	4,968,400	11/06/1990	Shimomura et al.			i.
	4,970,145	11/13/1990	Bennetto et al.		• /	7
	4,974,929	12/04/1990	Curry			RECEIVED SEP -3 2012
	4,986,271	01/22/1991	Wilkins			SEP
	4,994,167	02/19/1991	Shuits et al.			13 TH
	4,999,582	03/12/1991	Parks et al.			F 25 円
	5,034,192	07/23/1991	Wrighton et al.			7 RODIA
	5,037,527	08/06/1991	Hayashi et al.			014
	5,070,535	12/03/1991	Hochmair et al.			
	5,078,854	01/07/1992	Burgess et al.			
	5,082,550	01/21/1992	Rishpon et al.			
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	5,089,112	02/18/1992	Skotheim et al.			
	5,094,951	03/10/1992	Rosenberg			
	5,096,560	03/17/1992	Takai et al.	/		
	5,096,836	03/17/1992	Macho et al.		•	
17	5,101,814	04/07/1992	Palti			
AW	5,108,564	04/28/1992	Szuminsky et al.			

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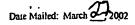
Applicant: LIAMOS ET AL.

Filing Date: 12/28/2001

Group Art Unit: 3361 2833

			U.S. PATENT DOCUMEN	rs		
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TW	5,109,850	05/05/1992	Blanco et al.		$\overline{}$	RECEIVE APR - 5
)	5,120,420	06/09/1992	Nanksi et al.			CIVE
7	5,120,421	06/09/1992	Glass et al.			1 ' ' i) Oak
7	5,126,034	06/30/1992	Carter et al.			TECHNOLOGY CENTER R.
	5,126,247	06/30/1992	Palmer et al.			CENTER P
1	5,128,015	07/07/1992	Szuminsky et al.			//
1	5,130,009	07/14/1992	Marsoner et al.		$\overline{}$	
	5,133,856	07/28/1992	Yamaguchi et al.			
	5,140,393	08/18/1992	Hijikihigawa et al.			·
	5,141,868	08/25/1992	Shanks et al.		ं	0 70
	5,161,532	11/10/1992	Joseph			\$ S
	5,165,407	11/24/1992	Wilson et al.			E, 3 Z
	5,168,046	12/01/1992	Hamamoto et al.			
	5,174,291	12/29/1992	Schoonen et al.			[N]
	5,185,256	02/09/1993	Nankai et al.			REGOV
	5,192,415	03/09/1993	Yoshioka et al.).	
	5,192,416	03/09/1993	Wang et al.		1	
	5,198,367	03/30/1993	Aizawa et al.			
	5,200,051	04/06/1993	Cozzette et al.			
	5,202,261	04/13/1993	Musho et al.			
	5,205,920	04/27/1993	Oyama et al.			
	5,206,145	04/27/1993	Cattell			
	5,208,154	05/04/1993	Weaver et al.			
	5,217,595	06/08/1993	Smith et al.			
	5,227,042	07/13/1993	Zawodzinski et al.			
	5,229,282	07/20/1993	Yoshioka et al.			
	5,250,439	10/05/1993	Musho et al.			
M	5,262,035	11/16/1993	Gregg et al.			†

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EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASSTE	HNOLOGY CENTER FILING DATE IF APPROPRIATE
gn-	5,262,305	11/16/1993	Heller et al.			
9	5,264,103	11/23/1993	Yoshioka et al.			
7	5,264,106	11/23/1993	McAleer et al.	T		
	5,266,179	11/30/1993	Nankai et al.			
7	5,271,815	12/21/1993	Wong			
	5,272,060	12/21/1993	Hamamoto et al.			
	5,278,079	01/11/1994	Gubinski et al.			
	5,286,362	02/15/1994	Hoenes et al.			1100 J
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	5,288,636	02/22/1994	Pollmann et al.			0 0 4
	5,293,546	03/08/1994	Tadros et al.			
	5,310,885	05/10/1994	Maier et al.			P.
	5,320,725	06/14/1994	Gregg et al.			P. CON
	5,326,449	07/05/1994	Cunningham			
	5,337,747	08/16/1994	Neftel			į.
	5,352,348	10/04/1994	Young et al.			
	5,352,351	10/04/1994	White et al.			
	5,356,786	10/18/1994	Heller et al.			
1	5,364,797	11/15/1994	Olson et al.			
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	5,372,133	12/13/1994	Hogen Esch			
	5,378,628	01/03/1995	Grätzel et al.			
	5,380,422	01/10/1995	Negishi et al.			
	5,382,346	01/17/1995	Uenoyama et al.			
	5,384,028	01/24/1995	Ito			
	5,387,327	02/07/1995	Khan			
I /	5,390,671	02/21/1995	Lord et al.			
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Applicant: LIAMOS ET AL.

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W	5,393,903	02/28/1995	Gratzel et al.			-VEN
7	5,395,504	03/07/1995	Saurer et al.			APR - 5
(5,410,474	04/25/1995	Fox			APR - 5 2
	5,411,647	05/02/1995	Johnson et al.			27 CENTE
	5,413,690	05/09/1995	Kost et al.			
	5,422,246	06/06/1995	Koopal et al.			
	5,437,973	08/01/1995	Vadgama et al.			
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	5,438,271	08/01/1995	White et al.			
	5,478,751	12/26/1995	Oosta et al.		:-	RECEN SEP-3
	5,494,562	02/27/1996	Maley et al.			SEP C
	5,496,453	03/05/1996	Uenoyama et al.			-3
	5,497,772	03/12/1996	Schulman et al.			F 23 ET
	5,501,956	03/26/1996	Wada et al.			RC
	5,502,396	03/26/1996	Desarzens et. al			n RCOM
	5,507,288	04/16/1996	Böcker et al.		> :	
	5,508,171	04/16/1996	Walling et al.			
	5,514,253	05/07/1996	Davis et al.			
	5,520,787	05/28/1996	Hanagan et al.			
	5,525,511	06/11/1996	D'Costa			·
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	5,567,302	10/22/1996	Song et al.			s
7	5,568,806	10/29/1996	Chency, II et al.			
77	5,569,186	10/29/1996	Lord et al.			

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12	5,575,895	11/19/1996	ikeda et al.			5 200L
/	5,580,527	12/03/1996	Bell et al.			APR TERRISIU
(.	5,582,184	12/10/1996	Erickson et al.			OCA CEIA.
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	5,582,698	12/10/1996	Flaherty et al.			
	5,586,553	12/24/1996	Halili et al.			
	5,589,045	12/31/1996	Hyodo			
	5,589,326	12/31/1996	Deng et al.			
	5,593,852	01/14/1997	Heller et al.		7	
	5,596,150	01/21/1997	Arndt et al.		,	RI
	5,617,851	04/08/1997	Lipkovker			SEP CE
	5,628,890	05/13/1997	Carter et al.			RECEN SEP-3
	5,650,062	07/22/1997	ikeda et al.			三 28
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	5,660,163	08/26/1997	Schulman et al.			OM
	5,670,031	09/23/1997	Hintsche et al.		,	
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	5,711,861	01/27/1998	Ward et al.			
	5,711,862	01/27/1998	Sakoda et al.			
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	5,727,548	03/17/1998	Hill et al.			
	_/ 5,741,211	04/21/1998	Renirie et al.			
	5,741,688	04/21/1998	Oxenboll et al.			
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pu	5,770,028	06/23/1998	Maley et al.			<u> </u>

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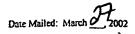
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